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APPLICANT(S): RAVI, Ashoke et al.
SERIAL NO.: 10/608,142
FILED: June 30, 2003
Page 6

REMARKS

The present Amendment and Response is intended to be fully responsive to all points of objection and/or rejection raised by the Examiner and is believed to place the Application in condition for allowance. Applicants assert that the present invention is new, non-obvious and useful. Favorable reconsideration and allowance of the application is respectfully requested.

Status of Claims

Claims 1, 3-7, 9-11, 13-17, 19-21 and 23-27 are pending in the application. Claims 1, 3-7, 9-11, 13-17, 19-21 and 23-27 have been rejected. Claims 1, 11 and 21 have been amended. The amendments add no new matter.

CLAIM REJECTIONS

35 U.S.C. § 112 Rejections

In the Office Action, the Examiner rejected claims 1, 11 and 21 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.

Claims 1, 11 and 21 have been amended, and Applicants assert that these claims, both prior to amendment and as currently amended, comply with 35 U.S.C. 112. Accordingly, Applicants respectfully request that the rejection of claims 1, 11 and 21 under 35 USC § 112 be withdrawn.

35 U.S.C. § 103(a) Rejection over Komori in view of Igarashi

In the Office Action, the Examiner rejected claims 1, 11 and 21 under 35 U.S.C. § 103(a) as being unpatentable over US Patent Number 5,481,227 to Komori et al. ("Komori") in view of US Patent Number 5,355,532 to Kubo et al. ("Kubo"). Applicants respectfully traverse the rejections of claims 1, 11 and 21 under 35 U.S.C. § 103(a) as being unpatentable over Komori in view of Kubo in view of the remarks that follow.

APPLICANT(S): RAVI, Ashoke et al.
SERIAL NO.: 10/608,142
FILED: June 30, 2003
Page 7

As is well established, in order to establish a prima facie case of obviousness, the prior art references must teach or suggest all the claim limitations. Without conceding the appropriateness of the Examiner's combination, Applicants respectfully submit that the combination of Komori and Kubo does not meet the requirements of an obviousness rejection, in that the combination fails to teach or suggest all the elements of the claimed invention.

Independent claims 1 and 11 recite, inter alia, "wherein a tuning voltage is to tune the gains of the first amplifier and the second amplifier".

Independent claim 21 recites, inter alia, "tuning the gains of the first amplifier and the second amplifier by the tuning voltage".

Applicants respectfully submit that neither Komori nor Kubo, alone or in combination, teach or suggest, at least the above cited elements of claims 1, 11, and 21.

Komori discloses "a first oscillator oscillating at a desired frequency as a result of inputting a voltage from a parallelly-connected first resonator and first voltage-variable capacitor to a current feedback loop of a first amplifier and controlling a voltage applied to the first voltage-variable capacitor, a second oscillator oscillating at a desired frequency as a result of inputting a voltage from a parallelly-connected second resonator and second voltage-variable capacitor to a current feedback loop of a second amplifier and controlling a voltage applied to the second voltage-variable capacitor" (see Komori column 2 lines 12-22, emphasis added).

Komori does not include a tuning voltage to tune the gains of a first amplifier and a second amplifier as recited (in paraphrase) by Applicants' claims 1, 11 and 21.

Komori includes in claim 1 a "first oscillating means oscillating at a desired frequency in response to a voltage from a first resonator and first voltage-variable capacitor connected in parallel to a first current feedback loop of a first amplifier for controlling a voltage applied to the first voltage-variable capacitor; second oscillating means oscillating at a desired frequency in response to a voltage from a second resonator and second voltage-variable capacitor connected in parallel to a second current feedback loop of a second amplifier for controlling a voltage applied to the second voltage variable capacitor." (emphasis added)

APPLICANT(S): RAVI, Ashoke et al.
SERIAL NO.: 10/608,142
FILED: June 30, 2003
Page 8

The first oscillating loop and the second oscillating loop disclosed by Komori are tuned by two different voltages. The first oscillating loop is tuned and controlled by voltage "v1" while the second oscillating loop is tuned and controlled by voltage "v2" as is clearly shown in Fig. 1 of Komori.

Applicants respectfully submit that Kubo does not cure the deficiencies of Komori as contended by the Examiner in the Office Action.

Kubo does not include a tuning voltage to tune the gains of a first amplifier and a second amplifier as recited (in paraphrase) by Applicants' claims 1, 11 and 21.

The tuning voltage F' disclosed by Kubo is applied to local oscillator 24 as described in column 2 lines 32-37:

"A tuning voltage is applied to the local oscillator 24 from a terminal F' and the local oscillation signal is also applied to the prescaler 26 from the local oscillator 24"

Kubo further discloses "a signal from a broadcasting satellite (1.0 to 1.3 GHz) is block-converted into the first intermediate frequency (referred to as BSIF) at a pre-stage, and the converted signal is inputted into a terminal C. The band pass filter 21 passes only a BSIF and inputs the BSIF signal to the mixer 23 through the BS first IF amplifier 22. The BSIF signal is mixed at the mixer 23 with an inputted signal from the local oscillator 24. The mixer 23 outputs a difference signal as a BS second IF signal having a frequency of 403 MHz to a terminal D through the BS second IF amplifier 25." (see Kubo column 2 lines 22-32, emphasis added).

The BS first IF amplifier 22 and the BS second IF amplifier 25 cannot be considered to be tuned by tuning voltage F', as contended by the Examiner as BS first IF amplifier 22 receives the input signal from terminal C and BS second IF amplifier 25 receives the mixed signal of the BSIF signal and an input signal from the local oscillator 24.

Applicants therefore assert that independent claims 1, 11 and 21 are allowable over Komori in view of Kubo. Therefore, Applicants respectfully request that the Examiner withdraw the rejection of claims 1, 11 and 21 under 35 U.S.C. § 103(a).

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CENTRAL FAX CENTER****FEB 26 2008**

APPLICANT(S): RAVI, Ashoke et al.
SERIAL NO.: 10/608,142
FILED: June 30, 2003
Page 9

35 U.S.C. § 103(a) Rejection over Komori in view of Igarashi

In the Office Action, the Examiner rejected claims 3-7, 9, 10, 13-17, 19, 20 and 23-27 under 35 U.S.C. § 103(a) as being unpatentable over Komori in view of Kubo in view of US Patent Number 5,950,143 to Igarashi et al. ("Igarashi"). Applicants respectfully traverse the rejections of claims 3-7, 9, 10, 13-17, 19, 20 and 23-2 under 35 U.S.C. § 103(a) as being unpatentable over Komori and Kubo in view of Igarashi in view of the remarks that follow.

As discussed, claims 1, 11 and 21 are allowable over Komori in view of Kubo. Each of claims 3-7, 9-10, 13-17, 19-20 and 23-27 depends directly or indirectly from one of independent claims 1, 11, and 21 and incorporates all the elements of the claim from which it depends. Igarashi does not cure the deficiencies of Komori and Kubo. Therefore, it is respectfully submitted that claims 3-7, 9-10, 13-17, 19-20 and 23-27 are likewise patentable.

Accordingly, Applicants respectfully request that the Examiner withdraw the rejection of claims 3-7, 9-10, 13-17, 19-20 and 23-27 under 35 USC §103(a) over Komori in view of Kubo in view of Igarashi.

Conclusion

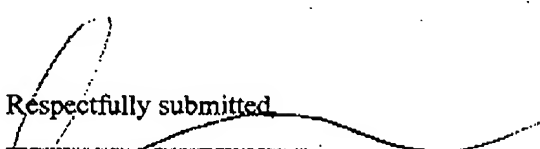
In view of the foregoing amendments and remarks, Applicants assert that the pending claims are allowable. Their favorable reconsideration and allowance is respectfully requested.

Should the Examiner have any question or comment as to the form, content or entry of this Response and Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone the undersigned counsel.

APPLICANT(S): RAVI, Ashoke et al.
SERIAL NO.: 10/608,142
FILED: June 30, 2003
Page 10

No fees are believed to be due associated with this paper. However, if any such fees are due, please charge such fees to deposit account No. 50-3355.

Respectfully submitted


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